

## **ABSTRACT OF THE INVENTION**

An inverter transformer and a core structure thereof are described. The core structure of the inverter transformer has a first core and a second core. The first core  
5 has a plurality of fork elements, a connection element, and a bottom element. The fork elements are parallel with each other and connect with the connection element. The connection element further connects with the bottom element, and therefore the bottom element and the fork elements are configured at respective sides of the connection element. The second core has a plurality of fork position openings and a  
10 bottom opening. The fork position openings correspond one-to-one with the fork elements and the bottom opening corresponds to the bottom element. The second core further includes a bottom indentation and a plurality of fork position indentations to form gaps and lock a primary coil module and secondary coil modules.